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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/555,945	06/06/2000	JOSE VICENTE TOMAS CLARAMONTE	2489-1-001	9439

7590

02/04/2003

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EXAMINER

HUFFMAN, JULIAN D

ART UNIT

PAPER NUMBER

2853

DATE MAILED: 02/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/555,945

Applicant(s)

TOMAS CLARAMONTE, JOSE VICENTE

Examiner

Julian D. Huffman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 November 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 June 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 21-23, 27-30 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kneezel in view of Hamano (JP 354158232 A) and Ishinaga.

Kneezel discloses a device for printing on a substrate, the device comprising:

projection means for projecting ink on a surface of a flat article in order to print a pattern on said surface (fig. 5, element 19), said flat article arranged on a conveyor means for conveyance in accordance with a trajectory (fig. 5, element 28);

at least one printing head (20) respectively comprising at least two printing modules (19) that are connected to a control unit (column 3, lines 51-63), each of the printing modules being arranged to project ink on the substrate in accordance with a marking width corresponding to a portion of a surface width of the flat article;

operation of each printing module being independently controlled by the control unit ;

each printing module being an extractable module comprising connecting means for individual connection to the printing head (column 5, lines 16-27);

wherein the printing modules are arranged in parallel with a degree of nonalignment with respect to each other, such that the marking width of each printing module extends to the marking width of at least one adjacent printing module (fig. 3);

wherein the marking widths cover at least the substrate width (figs. 3 and 5, column 1, lines 44-46);

wherein the print quality is higher than 200dpi (column 1, lines 29-31);

Kneezel does not disclose the nozzles arranged obliquely with respect to the trajectory of the substrate to be printed on. Additionally, Kneezel does not disclose that each printing module comprises an independent microprocessor and an independent memory.

Hamano discloses tilting a printhead (fig. 3b).

Ishinaga discloses an independent processor (4) and memory (6) provided on a printhead unit, which may be one of several units arranged along the width of a substrate (column 8, lines 49-56).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Kneezel by tilting each printhead unit and by providing a microprocessor and memory on each printhead unit. The reason for performing the modifications would have been to provide a desired increase in print resolution, as taught by Hamano, and shorten the processing time by mounting control circuits on the print head (column 2, lines 54-56), as taught by Ishinaga.

3. Claims 24, 25, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kneezel in view of Hamano and Ishinaga as applied to claims 21-23, 27-30 and 34 above and further in view of Donahue et al. (U.S. 6,155,669)

Kneezel as modified by Hamano and Ishinaga do not disclose multiple print bars.

Donahue et al. disclose multiple print bars for printing on a print medium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide multiple ones of the print bars disclosed by Kneezel. The reason for doing such would have been to further increase printing speed and provide additional colors by enabling more modules to be provided through the addition of additional printbars (see Kneezel, column 6, lines 2-7).

4. Claims 26 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kneezel in view of Hamano and Ishinaga as applied to claims 21-23, 27-30 and 34 and further in view of Kanemitsu.

Kneezel as modified by Hamano and Ishinaga does not expressly disclose a communication means for connection to a host computer.

Kanemitsu discloses a host computer for transmitting instruction signals or recording information to a printer through a communication means (fig. 9b, element 14, column 6, lines 29-33).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a communication means for communicating to a host computer in the invention of Kneezel as modified by Hamano and Ishinaga. The reason

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for performing the modification would have been to enable connection to a remote computer to transmit instruction signals and recording data to the device.

Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian D. Huffman whose telephone number is (703) 308-6556. The examiner can normally be reached on Monday through Friday from 9:30 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow, can be reached at (703) 308-3126. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722. Faxes requiring the immediate attention of the examiner may be sent directly to the examiner at (703) 746-4386. Note that this number will not automatically send a confirmation that the fax was received.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



JH

27 January 2003



Huan Tran
Primary Examiner